

DRILLS - METALWORKING

Taper Shank Drills

Morse Taper Shank — High Speed Steel
118° Point — Treated (Black Oxide)
General Purpose

Recommended for production work in wide variety of materials. **Black Oxide Surface Treatment** increases wear resistance, reduces galling and chip welding, improves chip flow and increases drill lubricant retention.



List No. 302

MADE IN USA

List No. 302QI

IMPORT

STANDARD PACKAGE

All sizes — 1 each

LIST NO. 302 & 302QI

SIZE	DECIMAL EQUIV.	TAPER SHANK	FLUTE LENGTH	OVERALL LENGTH	EDP NO.	
					302	302QI
1/8	.1250	1	1-7/8	5-1/8	80812	85588
9/64	.1406	1	2-1/8	5-3/8	80813	85589
5/32	.1562	1	2-1/8	5-3/8	80814	85590
11/64	.1719	1	2-1/2	5-3/4	80815	85591
3/16	.1875	1	2-1/2	5-3/4	80816	85592
13/64	.2031	1	2-3/4	6	80817	85593
7/32	.2188	1	2-3/4	6	80818	85594
15/64	.2344	1	2-3/4	6-1/8	80819	85595
1/4	.2500	1	2-7/8	6-1/8	80820	85596
17/64	.2656	1	3	6-1/4	80821	85597
9/32	.2812	1	3	6-1/4	80822	85598
19/64	.2969	1	3-1/8	6-3/8	80823	85599
5/16	.3125	1	3-1/8	6-3/8	80824	85600
21/64	.3281	1	3-1/4	6-1/2	80825	85601
11/32	.3438	1	3-1/4	6-1/2	80826	85602
23/64	.3594	1	3-1/2	6-3/4	80827	85603
3/8	.3750	1	3-1/2	6-3/4	80828	85604
25/64	.3906	1	3-5/8	7	80829	85605
13/32	.4062	1	3-5/8	7	80830	85606
27/64	.4219	1	3-7/8	7-1/4	80831	85607
7/16	.4375	1	3-7/8	7-1/4	80832	85608
29/64	.4531	1	4-1/8	7-1/2	80833	85609
15/32	.4688	1	4-1/8	7-1/2	80834	85610
31/64	.4844	2	4-3/8	8-1/4	80835	85611
1/2	.5000	2	4-3/8	8-1/4	80836	85612
33/64	.5156	2	4-5/8	8-1/2	80837	85613
17/32	.5312	2	4-5/8	8-1/2	80838	85614
35/64	.5469	2	4-7/8	8-3/4	80839	85615
9/16	.5625	2	4-7/8	8-3/4	80840	85616
37/64	.5781	2	4-7/8	8-3/4	80841	85617
19/32	.5838	2	4-7/8	8-3/4	80842	85618
39/64	.6094	2	4-7/8	8-3/4	80843	85619
5/8	.6250	2	4-7/8	8-3/4	80844	85620

SIZE	DECIMAL EQUIV.	TAPER SHANK	FLUTE LENGTH	OVERALL LENGTH	EDP NO.	
					302	302QI
41/64	.6406	2	5-1/8	9	80845	85621
21/32	.6562	2	5-1/8	9	80846	85622
43/64	.6719	2	5-3/8	9-1/4	80847	85623
11/16	.6875	2	5-3/8	9-1/4	80848	85624
45/64	.7031	2	5-5/8	9-1/2	80849	85625
23/32	.7188	2	5-5/8	9-1/2	80850	85626
47/64	.7344	2	5-7/8	9-3/4	80851	85627
3/4	.7500	2	5-7/8	9-3/4	80852	85628
49/64	.7656	2	6	9-7/8	80853	85629
25/32	.7812	2	6	9-7/8	80854	85630
51/64	.7969	3	6-1/8	10-3/4	80855	85631
13/16	.8125	3	6-1/8	10-3/4	80856	85632
53/64	.8281	3	6-1/8	10-3/4	80857	85633
27/32	.8438	3	6-1/8	10-3/4	80858	85634
55/64	.8594	3	6-1/8	10-3/4	80859	85635
7/8	.8750	3	6-1/8	10-3/4	80860	85636
57/64	.8906	3	6-1/8	10-3/4	80861	85637
29/32	.9062	3	6-1/8	10-3/4	80862	85638
59/64	.9219	3	6-1/8	10-3/4	80863	85639
15/16	.9375	3	6-1/8	10-3/4	80864	85640
61/64	.9531	3	6-3/8	11	80865	85641
31/32	.9688	3	6-3/8	11	80866	85642
63/64	.9844	3	6-3/8	11	80867	85643
1	1.0000	3	6-3/8	11	80868	85644
1-1/64	1.0156	3	6-1/2	11-1/8	80869	85645
1-1/32	1.0312	3	6-1/2	11-1/8	80870	85646
1-3/64	1.0469	3	6-5/8	11-1/4	80871	85647
1-1/16	1.0625	3	6-5/8	11-1/4	80872	85648
1-5/64	1.0781	4	6-7/8	12-1/2	80873	85649
1-3/32	1.0938	4	6-7/8	12-1/2	80874	85650
1-7/64	1.1094	4	7-1/8	12-3/4	80875	85651
1-1/8	1.1250	4	7-1/8	12-3/4	80876	85652

DRILLS - METALWORKING

Taper Shank Drills

Morse Taper Shank — High Speed Steel
118° Point — Treated (Black Oxide)
General Purpose



List No. 302

MADE IN USA

List No. 302QI

IMPORT

STANDARD PACKAGE

All sizes — 1 each

Recommended for production work in wide variety of materials. **Black Oxide Surface Treatment** increases wear resistance, reduces galling and chip welding, improves chip flow and increases drill lubricant retention.

LIST NO. 302 & 302QI

SIZE	DECIMAL EQUIV	TAPER SHANK	FLUTE LENGTH	OVERALL LENGTH	EDP NO.	
					302	302QI
1-9/64	1.1406	4	7-1/4	12-7/8	80877	85653
1-5/32	1.1562	4	7-1/4	12-7/8	80878	85654
1-11/64	1.1719	4	7-3/8	13	80879	85655
1-3/16	1.1875	4	7-3/8	13	80880	85656
1-13/64	1.2031	4	7-1/2	13-1/8	80881	85657
1-7/32	1.2188	4	7-1/2	13-1/8	80882	85658
1-15/64	1.2344	4	7-7/8	13-1/2	80883	85659
1-1/4	1.2500	4	7-7/8	13-1/2	80884	85660
1-17/64	1.2656	4	8-1/2	14-1/8	80885	85661
1-9/32	1.2812	4	8-1/2	14-1/8	80886	85662
1-19/64	1.2969	4	8-5/8	14-1/4	80887	85663
1-5/16	1.3125	4	8-5/8	14-1/4	80888	85664
1-21/64	1.3281	4	8-3/4	14-3/8	80889	85665
1-11/32	1.3438	4	8-3/4	14-3/8	80890	85666
1-23/64	1.3594	4	8-7/8	14-1/2	80891	85667
1-3/8	1.3750	4	8-7/8	14-1/2	80892	85668
1-25/64	1.3906	4	9	14-5/8	80893	85669
1-13/32	1.4062	4	9	14-5/8	80894	85670
1-27/64	1.4219	4	9-1/8	14-3/4	80895	85671
1-7/16	1.4375	4	9-1/8	14-3/4	80896	85672
1-29/64	1.4531	4	9-1/4	14-7/8	80897	85673
1-15/32	1.4688	4	9-1/4	14-7/8	80898	85674
1-31/64	1.4844	4	9-3/8	15	80899	85675
1-1/2	1.5000	4	9-3/8	15	80900	85676
1-17/32	1.5312	5	9-3/8	16-3/8	80901	85677
1-9/16	1.5625	5	9-5/8	16-5/8	80902	85678
1-19/32	1.5938	5	9-7/8	16-7/8	80903	85679
1-5/8	1.6250	5	10	17	80904	85680
1-21/32	1.6562	5	10-1/8	17-1/8	80905	85681
1-11/16	1.6875	5	10-1/8	17-1/8	80906	85682

SIZE	DECIMAL EQUIV	TAPER SHANK	FLUTE LENGTH	OVERALL LENGTH	EDP NO.	
					302	302QI
1-23/32	1.7188	5	10-1/8	17-1/8	80907	85683
1-3/4	1.7500	5	10-1/8	17-1/8	80908	85684
1-25/32	1.7812	5	10-1/8	17-1/8	80909	85685
1-13/16	1.8125	5	10-1/8	17-1/8	80910	85686
1-27/32	1.8438	5	10-1/8	17-1/8	80911	85687
1-7/8	1.8750	5	10-3/8	17-3/8	80912	85688
1-29/32	1.9062	5	10-3/8	17-3/8	80913	85689
1-15/16	1.9375	5	10-3/8	17-3/8	80914	85690
1-31/32	1.9688	5	10-3/8	17-3/8	80915	85691
2	2.0000	5	10-3/8	17-3/8	80916	85692
2-1/32	2.0312	5	10-3/8	17-3/8	-	88084
2-1/16	2.0625	5	10-1/4	17-3/8	80979	88085
2-3/32	2.0938	5	10-1/4	17-3/8	-	88086
2-1/8	2.1250	5	10-1/4	17-3/8	80980	88087
2-5/32	2.1562	5	10-1/4	17-3/8	-	88088
2-3/16	2.1875	5	10-1/4	17-3/8	80981	88089
2-7/32	2.2188	5	10-1/8	17-3/8	-	88090
2-1/4	2.2500	5	10-1/8	17-3/8	80982	88091
2-5/16	2.3125	5	10-1/8	17-3/8	80983	88092
2-3/8	2.3750	5	10-1/8	17-3/8	80984	88093
2-7/16	2.4375	5	11-1/4	18-3/4	80985	88094
2-1/2	2.5000	5	11-1/4	18-3/4	80986	88095
2-9/16	2.5625	5	11-7/8	19-1/2	-	88096
2-5/8	2.6250	5	11-7/8	19-1/2	-	88097
2-11/16	2.6875	5	12-3/4	20-3/8	-	88098
2-3/4	2.7500	5	12-3/4	20-3/8	-	88099
2-13/16	2.8125	5	13-3/8	21-1/8	-	88100
2-7/8	2.8750	5	13-3/8	21-1/8	-	88101
2-15/16	2.9375	5	14	21-3/4	-	88102
3	3.0000	5	14	21-3/4	-	88103

DRILLS - METALWORKING

Extra Long Taper Shank Drills

118° Point
High Speed Steel
Treated (Black Oxide)



For general purpose drilling in applications where extra reach is required.

Black Oxide Surface Treatment increases wear resistance, reduces galling and chip welding, improves chip flow and increases drill lubricant retention.

List No. 307QI

IMPORT

LIST NO. 307QI

SIZE	TAPER SHANK	EDP NO.			
		12" OAL	15" OAL	18" OAL	24" OAL
		8" FLUTE LENGTH	10" FLUTE LENGTH	12" FLUTE LENGTH	18" FLUTE LENGTH
1/8	1	87330	—	—	—
3/16	1	87331	—	—	—
7/32	1	87332	—	—	—
1/4	1	87333	87373	87438	—
17/64	1	87334	87374	87439	—
9/32	1	87335	87375	87440	—
19/64	1	87336	87376	87441	—
5/16	1	87337	87377	87442	—
21/64	1	87338	87378	88104	—
11/32	1	87339	87379	87443	—
23/64	1	87340	87380	87444	—
3/8	1	87341	87381	87445	87522
25/64	1	87342	87382	87446	87523
13/32	1	87343	87383	87447	87524
27/64	1	87344	87384	87448	87525
7/16	1	87345	87385	87449	87526
29/64	1	87346	87386	87450	—
15/32	1	87347	87387	87451	87527
31/64	2	87348	87388	87452	87528
1/2	2	87349	87389	87453	87529
33/64	2	87350	87390	87454	87530
17/32	2	87351	87391	87455	87531
35/64	2	87352	87392	87456	87532

SIZE	TAPER SHANK	EDP NO.			
		12" OAL	15" OAL	18" OAL	24" OAL
		8" FLUTE LENGTH	10" FLUTE LENGTH	12" FLUTE LENGTH	18" FLUTE LENGTH
9/16	2	87353	87393	87457	87533
37/64	2	87354	87394	87458	87534
19/32	2	87355	87395	87459	87535
39/64	2	87356	87396	87460	87536
5/8	2	87357	87397	87461	87537
41/64	2	87358	87398	87462	87538
21/32	2	87359	87399	87463	87539
43/64	2	87360	87400	87464	87540
11/16	2	87361	87401	87465	87541
45/64	2	87362	87402	87466	87542
23/32	2	87363	87403	87467	87543
47/64	2	87364	87404	87468	87544
3/4	2	87365	87405	87469	87545
49/64	2	87366	87406	87470	87546
25/32	2	87367	87407	87471	87547
51/64	3	—	87408	87472	87548
13/16	3	87368	87409	87473	87549
53/64	3	87369	87410	87474	87550
27/32	3	87370	87411	87475	87551
55/64	3	—	87412	87476	87552
7/8	3	87371	87413	87477	87553
57/64	3	—	87414	87478	87554
29/32	3	—	87415	87479	87555

(continued)

DRILLS - METALWORKING

Extra Long Taper Shank Drills

118° Point
High Speed Steel
Treated (Black Oxide)



For general purpose drilling in applications where extra reach is required.

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List No. 307QI

IMPORT

LIST NO. 307QI

(continued)

SIZE	TAPER SHANK	EDP NO.			
		12" OAL	15" OAL	18" OAL	24" OAL
		8" FLUTE LENGTH	10" FLUTE LENGTH	12" FLUTE LENGTH	18" FLUTE LENGTH
59/64	3	—	87416	87480	87556
15/16	3	87372	87417	87481	87557
61/64	3	—	87418	87482	87558
31/32	3	—	87419	87483	87559
63/64	3	—	87420	87484	87560
1	3	—	87421	87485	87561
1-1/64	3	—	87422	87486	87562
1-1/32	3	—	87423	87487	87563
1-3/64	3	—	87424	87488	87564
1-1/16	3	—	87425	87489	87565
1-5/64	4	—	87426	87490	87566
1-3/32	4	—	87427	87491	87567
1-7/64	4	—	87428	87492	87568
1-1/8	4	—	87429	87493	87569
1-9/64	4	—	87430	87494	87570
1-5/32	4	—	87431	87495	87571
1-11/64	4	—	87432	87496	87572
1-3/16	4	—	87433	87497	87573
1-13/64	4	—	87434	87498	87574
1-7/32	4	—	87435	87499	87575
1-15/64	4	—	87436	87500	87576

SIZE	TAPER SHANK	EDP NO.			
		12" OAL	15" OAL	18" OAL	24" OAL
		8" FLUTE LENGTH	10" FLUTE LENGTH	12" FLUTE LENGTH	18" FLUTE LENGTH
1-1/4	4	—	87437	87501	87577
1-17/64	4	—	—	87502	87578
1-9/32	4	—	—	87503	87579
1-19/64	4	—	—	87504	87580
1-5/16	4	—	—	87505	87581
1-21/64	4	—	—	87506	87582
1-11/32	4	—	—	87507	87583
1-23/64	4	—	—	87508	87584
1-3/8	4	—	—	87509	87585
1-25/64	4	—	—	87510	87586
1-13/32	4	—	—	87511	87587
1-27/64	4	—	—	87512	87588
1-7/16	4	—	—	87513	87589
1-29/64	4	—	—	87514	87590
1-15/32	4	—	—	87515	87591
1-31/64	4	—	—	87516	87592
1-1/2	4	—	—	87517	87593
1-9/16	5	—	—	87518	87594
1-5/8	5	—	—	87519	87597
1-11/16	5	—	—	87520	87595
1-3/4	5	—	—	87521	87596